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90 DAY/12 MONTH LIMITED WARRANTY

AUDIOVOX SPECIALIZED APPLICATION, LLC (the company) warrants to the original retail purchaser of this product that should this product or any part thereof, under normal use and con ditions, be proven defective in material or workm anship within 90 days from the date of original purchase, such defect(s) will be repaired or replaced (at the company's option) without charge for parts and repair labor. After the initial 90 day period and for a period of 12 months from the date of original purchase, the Company will supply at no charge a replacement for any defective part(s), but will charge for the labor to repair the product.

To obtain repair or replacement within the terms of this warranty, the product is to be delivered with proof of warranty coverage (e.g.:dated bill of sale), specification of defect(s), transportation prepaid, to an approved warranty station, or the Company at the address shown below.

This warranty does not extend to the elimination of externally generated static or noise, to the correction of antenna problems, to costs incurred for removal or reinstallation of the product, or to damage to any tapes, speakers, accessories,

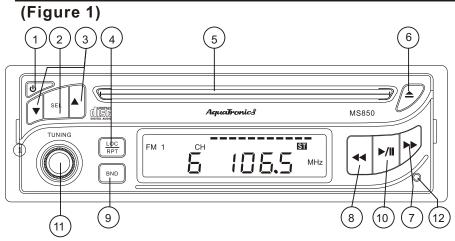
This warranty does not apply to any product or part thereof which , in the opinion of the company, has been damaged through alteration, improper installation, mishandling , misuse, neglect, or accident, THE EXTENT OF THE COMPANY'S LIABILITY UNDER THIS WARRANTY IS LIMITED TO THE REPAIR OR REPLACEMENT PROVIDED ABOVE, AND , IN NO EVENT, SHALL THE COMPANY'S LIABILITY EXCEED THE PURCHASE PRICE PAID BY THE PURCHASER FOR THE PRODUCT.

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AUDIOVOX SPECIALIZED APPLICATIONS, LLC 23319 COOPER DR. ELKHART, IN 46514 Visit us at http://www.asaelectronics.com

FACEPLATE CONTROLS DIAGRAM



1 PWR (POWER) BUTTON

Push button "也" to turn the power ON or OFF.

2 SEL (AUDIO MODE SELECT) BUTTON

Press SEL button to change the mode in the sequence as follows;

 \rightarrow VOL \rightarrow BAS \rightarrow TRE \rightarrow BAL \rightarrow FAD -

③ VOLUME "▲ ▼ " (AUDIO LEVEL) BUTTON

- i) The volume level can be adjusted at any time by pressing the audio level " ▲ " or " ▼ " button.
- ii) The volume mode is also obtained by stepping through the "SEL" button until the function "VOL "indicator lights up and then press "▲" or " ▼" button to adjust the sound level.

iii)Press and hold the "▲ " or "▼" button to adjust the sound level.

BASS CONTROL

i) Press the "SEL" button to select the bass mode until "BAS" indicator lights up.
 ii) Press "▲ " or " ▼ " button to adjust the bass effect.

TREBLE CONTROL

i) Press the "SEL" button to select the treble mode until "TRE" indicator lights up.
ii) Press " ▲ " or " ▼ " button to adjust the treble effect.

BALANCE CONTROL

i) Press the "SEL" button to select the balance mode until "BAL" indicator lights up.
 ii) Press "▲" button to decrease the sound level of left speakers or press " ▼ " button to decrease the sound level of right speakers.

FADER CONTROL

i) Press the "SEL" button to select the fader mode until "FAD" indicator lights up.
 ii) Press " ▲ " button to decrease the sound level of rear speakers or press " ▼ " button to decrease the sound level of front speakers.

4 LOC/RPT BUTTON

IN RADIO MODE Press this button once in weak signal area.IN RADIO MODE Press it once again for strong signal area.IN CD PLAY Press "RPT" button to play one song repeatedly.

5 CD LOADING SLOT

To load a CD through this slot. Upon a disc being loaded, CD immediately starts to play (CD mode)

ⓐ ▲ (CD EJECT) BUTTON

Push button " \blacktriangle " to eject disc.

(7) ► BUTTON (FAST FORWARD)

Press to search forward.

⑧ ◀ BUTTON (FAST REVERSE)

Press to search backward.

(9) BAN(BAND) BUTTON

Each press for MW(AM)/FM

10 ►/II BUTTON (PLAY PAUSE)

Press to start playback, press once to pause, press again to resume play from the point at which you pause.

1 TUNING BUTTON

Rotate the knob to tune to the desired radio station.

12 Press the button to reset

- Do not leave the front panel in any area expose to high temperatures or direct sunlight.
- * Do not drop the front panel or otherwise subject it to strong impact.
- * Do not allow such volatile agents as benzine, thinner, or insecticides to come Into contact with the surface of the front panel.
- * Never try to disassemble the front panel.

DISC PLAY

Cleaning discs

Before playing, clean the disc with a clean, lint-free cloth. Wipe the disc in the direction of the arrow.



Note:

 Do not use solvents such as benzine, thinners, commercially available cleaners or antistatic spray intended for analogue discs.

Do not Insert a disc with the label surface down. Doing so may damage the unit.





- Do not try to insert another disc when one has been already inserted. Doing so may damage the unit.
- Handle the disc by its edge, and to keep the disc clean, do not touch the surface.



- Do not stick paper or tape on the disc.
- Do not expose the disc to direct sunlight or heat sources such as hot air ducts, or leave it in a car parked in direct sunlight where there can be a considerable rise in temperature.

This note will discuss DC Power sources and how they relate to 12 volt products .

General Specifications

Our general specification for the voltage range of operation is 10 to 16 volts DC .

Voltage

The voltage of a fully charged battery (engine not running) is approximately 12.5 VDC. Once a load (items being powered represent the "load") is applied, the voltage will drop. How much the voltage is reduced will depend on the following:

1. Current draw (amount of amperage) The higher the draw the greater the voltage will drop.

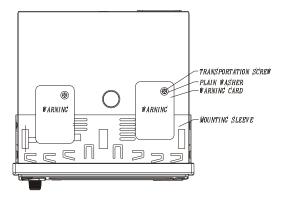
2. The size and length of the conductor (wire) supplying power.

Converters

Many boats incorporate convertors as a source for 12VDC when connected to shore power (110-120 VAC). Some converters put outa very clean DC supply where others may have a considerable amount of AC ripple noise under maximum load.

This AC ripple noise is filtered by the boat battery when connected into the circuit, but when the battery is disconnected the amount of AC ripple noise can create major problems for audio products. Noise may result and the line fuse may fail.

TRANSPORTATION SCREW



Please remove this shipping screw before installation. If the screw is left in place, the CD mechanism will not operate.

After remove the shipping screws, apply the stickers provided on the two screw holes in order to prevent possibility for the water drops from getting into the unit.

WIRING DIAGRAM

(Figure 2)

4 SPEAKERS, WITH FADER

Negative (-) ground connection ± (black)

Connect to the car chassis (-) via the black connection lead.

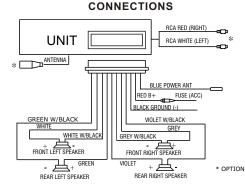
Note: Ground over antenna socket is not sufficient.

Connect to uninterrupted positive supply, terminal (behind the car fuse) via the connection lead.

(+) 12 volts/ power line_(____(RED)

Connect the connection cable to fuse holder terminal (switched by the ignition switch) or to uninterrupted positive supply terminal (behind the fuse).

Connection for External Amplifier (white / red) (OPTION). Using these connections an additional amplifier may be connected.



(Figure 2)

FM

r/vi	
Frequency range	.88-108 MHz
	(87.5-108 MHz)
Usable sensitivity	
I.F. Frequency	10.7 MHz

MW (AM)

Frequency range	520 -1710 KHz
	(531-1602 KHz)
I.F. Frequency	455 Khz

LINE - OUT (OPTION)

Output level	350 mV @ FM 10% THD power
Impedance	

CD PLAYER

System Compact disc audio	
Usable disc	ct disc
Signal format Sampling frequency :44	
No of quantization b	oits:1bit
Frequency characteristics 5-20	,000Hz
Signal to noise ratio70dB(1KHz)(IEC-A ne	twork)
Number of channels	stereo

GENERAL

Power requirement	DC 12.0V/Rated:14.4V
	Negative ground
Current consumption	10 A MAXIMUM
Speaker Impedance	4 - 8 ohm
Power Output	
Dimension (SET)	178(W)x50(H)x150(L)mm
Maximum allowable Moun	ting angle
Front to back	10° - +30°
Side to Side	

* OPTION

NOTE:

Specification is subject to change without further notice

TROUBLESHOOTING CHART AM/FM RADIOS

Symptom	Cause	Possible Solution
No Power	No 12VDC	Check circuit fuse at source Check in-line fuse on power lead Power lead disconnected Ground connection disconnected
Power indicated; no audio output or very distorted sound	No 12VDC to memory lead(electronically tuned units only)	Circuit fuse at source In-line memory lead fuse
	Speaker Output shorted	Check continuity of speaker leads to ground
	Speaker out cross channeled	Check for proper speaker wiring Note: Radios have a sticker on them explaining wiring color code.
Only one channel (right or left side)	Radio Balance	Check radio function
	Speaker Disconnected	Check speaker connection at radio and/or speaker
	Speaker lead shorted or grounded	Check speaker wiring continuity to ground w/tester or meter
Popping in one or both channels	Speaker wiring shorted or positive lead grounded Speaker terminals grounded or shorted	Leads from speaker cone to terminal touching metal basket or speaker
No AM Reception	Antenna disconnected	Connect Antenna
	Antenna mast grounded or shorted	Check antenna or substitute with antenna known to be good
	Antenna center lead broken	Check antenna or substitute with antenna known to be good
	NOTE: Antenna leads can be tested with continuity or multi-tester. Some may have electronic component (capacitor) built in which not allow it to be tested.	

APPLICATION NOTES

AM/FM RECEPTION

Some boats have more than one AM/FM radio.The best way to insure good reception is to supply a separate antenna for each radio. Other options available to supply adequate AM/FM reception to these radios are listed below, along with some general information in regards to radio reception.

"Y"ADAPTORS

The "Y" adaptors used to connect one antenna to two radios will compromise both AM and FM reception.

AMPLIFIED AM/FMANTENNA

A popular second antenna that can be used is our AB-100 amplified AM/FM antenna. It is small and has a retractable mast that can be mounted vertically or horizontally. This antenna provides good FM reception, but the AM reception will be compromised to some degree because of the length of the mast.

MAST LENGTH

AM/FM antennas compromise AM reception by design. The optimum mast length for FM is approximately 30 inches which is the standard for most automotive antennas. The optimum mast length for AM reception is over 100 inches which is not practical for mobile applications.

Special circuitry in electronic tuned radios or AM trimmers in mechanically tuned radios, make up for some of this difference in optimum mast length for AM reception.

ANTENNA CABLE

Increasing the antenna lead cable (adding extensions) will reduce sensitivity of AM with electronic tuned radios.

GROUND PLANES

Ground planes are also important when considering antenna performance. Most automotive antennas are designed to be mounted on the metal body of the vehicle.

The metal body reflects the signal interference generated by the vehicle's electrical system while it also provides the ground for the antenna lead shield. All this is necessary in order to maintain a good signal, especially AM.

FM RECEPTION

FM reception can be received with a very limited antenna and strong local FM stations can be received without an antenna, depending on the circumstances.

CONCLUSION:

AM/FM reception is subject to the choice of an antenna and it's application. There can also be a variety of methods used to supply signal to both primary and secondary radios , but AM performance is the ultimate "test"